

Talha Karasu

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Education

Istanbul Technical University	2024 – 2029
<i>Bachelor's degree, Robotics and Autonomous Systems Engineering</i>	
Eskisehir Anatolian High School	2020 – 2024

Experience

Software Team Member	(9 mos) Oct 2024 – present
<i>ITU Autonomous Underwater Vehicle Team</i>	<i>Istanbul, Turkey</i>
<ul style="list-style-type: none">Contributing to the development of AUV software using ROS, C++, and PythonFocusing on localization and trajectory generation for autonomous navigation	
Robotics Mentor	(3 years) Jun 2022 – present
<i>FRC Team 9483: Istanbul Wildcats</i>	<i>Istanbul, Turkey</i>
<ul style="list-style-type: none">Gained experience with advanced control algorithms for pose estimation and trajectory following, mainly used JavaDeveloped a Progressive Web App (PWA) with Vue.js to collect and analyze scouting data, enhancing the team's match strategySupported the team in achieving multiple tournament wins and awards, including being the FRC 2024 Houston World Championship Division Winner	
Web Developer Intern	(7 mos) Jun 2022 – Dec 2022
<i>Kodesis Automation</i>	<i>Eskisehir, Turkey</i>
<ul style="list-style-type: none">Developed and optimized web interfaces for automation projects using Vue.jsWorked on real-time data from multiple automation systems, streaming it into a unified interface for enhanced monitoringLearned to manage tasks within a structured, real-world environment with deadlines	
Team Captain	(10 mos) Sep 2021 – Jun 2022
<i>FRC Team 8828: EAL Robotics</i>	<i>Eskisehir, Turkey</i>
<ul style="list-style-type: none">Co-Founded the team and trained the software team membersDeveloped robot control systems using Java for autonomous and manual operationGained experience with designing electronic systems that utilize CAN BusLed fundraising initiatives, successfully securing \$20,000+ sponsorships to support team operations	

Languages

Turkish – Native | **English** – High Proficiency